



The coolest thing in air conditioning today – ICE

On a hot summer day, no matter what your drink, it's always better "on the rocks." Ice keeps it cool and refreshing long after you take it from the refrigerator and pour it in your glass.

The same properties of ice, at work in your drink, can also cool your building long after you shut off that power-intensive air conditioning equipment, helping you save up to 60% of your energy costs!

It's called **Thermal Energy Storage (TES)**.

Thermal Energy Storage

Ice is fundamental to thermal energy storage for air conditioning and cooling applications. Ice has unique physical properties that, by its very nature, make it an ideal, compact and environmentally inert thermal battery.

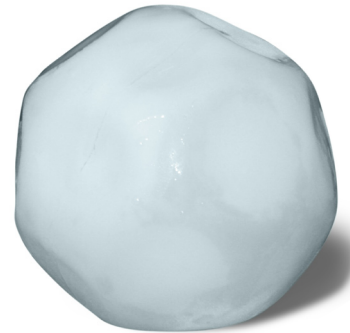
Off-Peak Cooling (OPC) systems rely on the principle of thermal energy storage and the heat of fusion and use ice, which is made and stored at night, to provide cooling for air conditioning and other processes during the day.

Off-peak cooling derives its name from its key characteristic—it enables power-intensive air conditioning equipment to operate at night, shifting electrical consumption to "off-peak" hours when electricity prices are typically 35 – 50% lower.

Cryogel Ice Ball™

Compared to traditional air conditioning systems, off-peak cooling using Ice Ball TES:

- ➔ Cuts energy costs 35 – 60%
- ➔ Consumes 5 – 15% less energy
- ➔ Increases efficiency
- ➔ Improves reliability, and
- ➔ Reduces environmental impact



Cryogel Corporation's patented Ice Ball™ is the simplest, most reliable and efficient TES product on the market today. Over 20,000,000 Ice Balls provide thermal energy storage for air conditioning systems in schools, hospitals, airports, office buildings and manufacturing facilities around the globe.

Ice Balls are uniquely designed and patented 4 inch diameter, dimpled spheres constructed of high-density polyethylene and filled with water and a special agent to seed crystallization and ice formation.

Innovative Cooling Technologies has partnered with Cryogel Corporation and is the exclusive supplier for Ice Ball™ TES in Ontario.

At Innovative Cooling Technologies, we're experts in enviro-friendly, energy efficient cooling solutions. We specialize in the design, build and installation of off-peak cooling systems. We'll work hand in hand with your current contractor or manage the project end to end.

The patented Ice Ball™ TES technology is exclusive to ICT in Ontario.

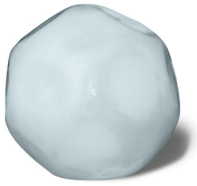
To learn more about the Ice Ball and how off-peak cooling can generate huge savings, visit our web site at www.ictcanadaltd.com

Cryogel Ice Ball™

Ice Ball isn't the *only* TES product available, but it certainly is the *best*.

Other off-peak cooling vendors rely on "ice-on-coil" tanks for TES. However, compared to our Ice Ball TES solution, ice-on-coil alternatives are less efficient, less reliable, use more energy, and are restricted in terms of storage tank and installation options.

Ice Ball overcomes these problems. In Ontario, ICT is the exclusive supplier for Ice Ball thermal energy storage.

FEATURE	CHARACTERISTICS	ICE BALL BENEFIT
Individual containment spheres 	Patented, dimpled design No moving parts No fragile coils No welded joints	<ul style="list-style-type: none"> ➤ Simplicity – just fill the tank like marbles in a jar ➤ Eliminates the requirement for complex, costly water biocide treatment ➤ Eliminates the possibility of damage from overcharging and costly repairs ➤ Eliminates the need for expensive ice-limiting controls and problems with ice caps, ice bridging and flow channeling
Ice Ball Surface Area	Ice Balls provide 30 – 300% more surface area per nominal ton hour compared to ice-on-coil systems	<ul style="list-style-type: none"> ➤ More efficient cooling ➤ Improved overall performance ➤ Reduces energy consumption ➤ Saves money
Containment Flexibility	Virtually any type or shape of tank can be used – steel, concrete, fiberglass, atmospheric, pressurized Vertical or horizontal installation Above or below grade installation	<ul style="list-style-type: none"> ➤ Allows custom-sized tanks – usually avoiding a complex, expensive "tank farm" ice-on-coil systems often need ➤ Reduces installation costs ➤ Improves reliability ➤ Smaller footprint saves valuable real estate
Tank Design	No heat exchanger tubes, fittings, air pumps or other moving parts	<ul style="list-style-type: none"> ➤ Enhanced reliability ➤ More durability ➤ Less costly tanks and equipment ➤ Lower installation costs ➤ Minimal maintenance costs
Environmental Protection	Require less energy to produce equivalent cooling capacity than ice-on-coil Shifts major electrical load to off-peak hours	<ul style="list-style-type: none"> ➤ Conserves energy ➤ Reduces greenhouse gas emissions ➤ Minimizes corporate carbon footprint ➤ Reduces peak load demand



INNOVATIVE COOLING TECHNOLOGIES
of Canada Limited